

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 38586-341002	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/US05/43215	International filing date (day/month/year) 30 November 2005 (30.11.2005)	(Earliest) Priority Date (day/month/year) 29 November 2004 (29.11.2004)
Applicant THE REGENTS OF THE UNIVERSITY OF CALIFORNIA		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 1 sheets.



It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the Report

a. With regard to the language, the international search was carried out on the basis of:



the international application in the language in which it was filed.



a translation of the international application into _____, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b))

b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.

2. Certain claims were found unsearchable (See Box No. II)

3. Unity of invention is lacking (See Box No. III)

4. With regard to the title,



the text is approved as submitted by the applicant.



the text has been established by this Authority to read as follows:

5. With regard to the abstract,



the text is approved as submitted by the applicant.



the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the drawings,

a. the figure of the drawings to be published with the abstract is Figure No. _____

as suggested by the applicant.

as selected by this Authority, because the applicant failed to suggest a figure.

as selected by this Authority, because this figure better characterizes the invention.

b. none of the figures is to be published with the abstract.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US05/43215

A. CLASSIFICATION OF SUBJECT MATTER

IPC: A61K 35/32(2006.01)

USPC: 424/549

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
U.S. : 424/549

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
Please See Continuation Sheet

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	BEHNAM K. et al. Identification of the molecular chaperone alpha B-crystallin in demineralized bone powder and osteoblast-like cells, Journal of Orthopaedic Research; November 2002, Vol. 20, No. 6, pages 1190-1196, especially abstract and materials & methods, page 1191.	1-35
Y	US 4,789,732 (URIST) 6 December 1988 (06.12.1988), abstract, Fig. 1, columns 2, and examples.	1-35
Y	US 4,843,063 (SEYEDIN et al) 27 June 1989 (27.06.1989), column 4, 3rd paragraph; example, column 5.	1-35
Y	US 6,311,690 B1 (JEFFERIES) 6 November 2001 (06.11.2001), abstract, summary of the invention, example 2, and claims.	1-35
Y	US 5,393,739 A (BENTZ et al) 28 February 1995 (28.02.1995), abstract, summary of the invention, column5, column 8, and claims.	1-35



Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents:	"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier application or patent published on or after the international filing date	"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&"	document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means		
"P" document published prior to the international filing date but later than the priority date claimed		

Date of the actual completion of the international search

18 June 2006 (18.06.2006)

Date of mailing of the international search report

03 AUG 2006

Name and mailing address of the ISA/US

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INTERNATIONAL SEARCH REPORTInternational application No.
PCT/US05/43215**C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	MILLER-BERTOGLIO V. et al. Maternal and zygotic activity of the Zebrafish ogon locus antagonizes BMP signaling, Developmental Biology, 1999, Vol. 214, pages 72-86, especially abstract, page 72.	1-35

INTERNATIONAL SEARCH REPORT

International application No.
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Continuation of B. FIELDS SEARCHED Item 3:
EAST: USPAT, USOCR, US-PGPUB, JPO, EPO, DERWENT
STN: CAPLUS, BIOSIS, SCISEARCH, MEDLINE, WPIDS, EMBASE, CONGSCI

SEARCH STRATEGIES:

demineral? bone matrix or dbm or dmb
urea or guanidin? or chaotrop?
detergent? or triton or sds
citrate or citric
bmp or bone morphogen? or bone morphogenic protein?
noggin and bmp or bone morphogen?